

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-27-05

Date: 30-06-17

Sample ID No : 2017-06-27-05-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.66	-
4	Bulk Density(Loose) (Kg/l)	1.48	-
5	Bulk Density(Compacted) (Kg/l)	1.49	-
6	Water Absorption(%)	0.19	-
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha



FOR CIVIL Pro.

R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signature
Quality Manager

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End of Report

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬಿರಕುಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ಪಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-06-27-05 **Date:** 30-06-17
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads & Drains chikkasandra 13th, 14th, 15th connected to A & B layout in ward no.12 in Shettyhalli Sub Division.
Agency : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference : BBMP/EE/DD/WO/121/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-06-17
Sample ID No : 2017-06-27-05-03
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 27-06-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	176	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	189	594	59.4	40.6	15-34	35-59	60-79	80-100
6	300 micron	175	769	76.9	23.1	5-20	8-30	12-40	15-50
7	150 micron	145	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
 GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-06-27-05

Date: 30-06-17

Sample ID No : 2017-06-27-05-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.75	—
2	Specific Gravity	2.55	—
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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AE-12
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TEST RESULTS OF STEEL

Lab ID : CP-2017-06-27-05 Date: 30-06-17
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads & Drains chikkasandra 13th, 14th, 15th connected to A & B layout in ward no.12 in Shettyhalli Sub Division.
Agency : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference : BBMP/EE/DD/WO/121/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-06-17
Sample ID No : 2017-06-27-05/04
Sample Type : JSW
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 29-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	JSW	Fe500	8	0.392	556	682	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.615	576	690	19.0%	Satisfactory	Satisfactory

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AC-12
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End of Report*



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Authorized Signatory
Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-10-04 Date: 17/07/2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains chikkasandra 13th, 14th, 15th connected to A & B layout in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/121/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-17

Sample ID No : 2017-07-10-04-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M20	10/07/2017	17/07/2017	150.25 X 150.28 X 150.20	22580	8.354	410.9	18.2	18.4
2	PCC	M20	10/07/2017	17/07/2017	150.24 X 150.25 X 150.28	22574	8.330	413.1	18.3	
3	PCC	M20	10/07/2017	17/07/2017	150.25 X 150.24 X 150.30	22574	8.312	422.1	18.7	

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AE-12

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Authorized Signatory
Quality Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-10-04 Date: 07/08/2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains chikkasandra 13th, 14th, 15th connected to A & B layout in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/121/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-17

Sample ID No : 2017-07-10-04-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M20	10/07/2017	07/08/2017	150.20 X 150.24 X 150.19	22566	8.322	505.5	22.4	22.4
2	PCC	M20	10/07/2017	07/08/2017	150.28 X 150.27 X 150.28	22583	8.356	512.6	22.7	
3	PCC	M20	10/07/2017	07/08/2017	150.33 X 150.24 X 150.30	22586	8.372	499.1	22.1	

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BE-12

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